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Nota di contenuto	Smart Antennas and Diversity -- Effects of Directional Antennas with Realizable Beam Patterns on the Spaced-Time Correlation Function -- Frequency Reuse Reduction for IS-136 Using a Four Element Adaptive Array -- Pseudo-Blind Algorithm for SDMA Application -- Integrated Broadband Mobile System (IBMS) Featuring Smart Antennas -- CDMA Smart Antenna Performance -- Propagation -- Wireless RF Distribution in Buildings using Heating and Ventilation Ducts -- Predicting Propagation Loss from Leaky Coaxial Cable Terminated with an Indoor Antenna -- Building Penetration and Shadowing Characteristics of 1865 MHz Radio Waves -- Maximizing Carrier-to-interference Performance by Optimizing Site Location -- Azimuth, Elevation, and Delay of Signals at Mobile Station Site -- Interference Cancellation -- A New Hybrid CDMA/TDMA Multiuser Receiver System -- Multiuser Multistage Detector for Mode 1 of FRAMES Standard -- Self-organizing Feature Maps for Dynamic Control of Radio Resources in CDMA PCS Networks -- Equalization -- Complex Scaled Tangent Rotations (CSTAR) for Fast Space-Time Adaptive Equalization of Wireless TDMA -- An Effective LMS Equalizer for the GSM Chipset -- Self-Adaptive Sequence Detection

via the M-algorithm -- Soft-Decision MLSE Data Receiver for GSM System -- Modulation, Coding, and Networking -- Turbo Code Implementation Issues for Low Latency, Low Power Applications -- Evaluation of the Ad-Hoc Connectivity with the Zone Routing Protocols -- Invited Posters Presented at the 1998 Symposium -- CDMA Systems Modelling Using OPNET Software Tool -- Signal Monitoring System For Fault Management in Wireless Local Area Networks -- Computer-Aided Designing of Land Mobile Radio Communication Systems, Taking Into Consideration Interfering Stations -- Adaptive Interference Cancellation with Neural Networks -- Calibration of a Smart Antenna for Carrying Out Vector Channel Sounding at 1.9 GHz -- Implementing New Technologies for Wireless Networks: Photographic Simulations and Geographic Information Systems -- Envelope PDF in Multipath Fading Channels with Random Number of Paths and Nonuniform Phase Distributions -- Radio Port Spacing in Low Tier Wireless Systems -- A Peek Into Pandora's Box: Direct Sequence vs. Frequency Hopped Spread Spectrum -- On the Capacity of CDMA/PRMA Systems.

Sommario/riassunto

The contributions reflect current research thrusts as the wireless community strives to enhance the capabilities of wireless communications. The final section includes contributions on a variety of pertinent topics.